

9797

Printer Controller Basic User's Guide

For use with Imagistics im5520 and im4720

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User Instructions

For the U.S.A. Users

FCC Part 15-Radio Frequency Devices

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING
The design and production of this unit conform to FCC Regulations, and any changes or modifications must be registered with the FCC and are subject to FCC control. Any changes made by purchaser or user without first contacting the manufacturer will be subject to penalty under FCC regulations.

FCC-F02

This device must be used with shielded interface cables. The use of non-shielded cables is likely to result in interference with radio communications and is prohibited under FCC rules.

For Canada Users

Interference-Causing Equipment Standard (ICES-003 Issue 3)

This Class A digital apparatus complied with Canadian ICES-003
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

IC-F03

For European Users

CE Marking (Declaration of Conformity)

This product complies with the following EU directives:
89/336/EEC, 73/23/EEC and 93/68/EEC directives.
This declaration is valid for the area of the European Union.

This device must be used with shielded interface cables. The use of non-shielded cables is likely to result in interference with radio communications and is prohibited under EU directives.



For Users of the Class B regulation's countries

This device must be used with shielded interface cables. The use of non-shielded cables is likely to result in interference with radio communications and is prohibited under CISPR 22 rules and local rules.

For Users except the Class B regulation's countries

WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

This device must be used with shielded interface cables. The use of non-shielded cables is likely to result in interference with radio communications and is prohibited under CISPR 22 rules and local rules.

Welcome

Thank you for purchasing the printer controller.

This Quick Start Guide explains how to run print cycles on the machine, to which the controller is connected. It also provides information about how to setup the Network Interface Card and operate the Digital Copier in a network environment. First read this manual carefully and thoroughly; then, keep it close at hand so you can refer to it whenever it becomes necessary.

Some of the screens shown in this manual may look different from what you will view in actual applications.

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1 Before Using the Printer Driver

1.1 Features of the Controller

The controller is an image controller designed to use the machine as a printer, allowing you to print documents directly to the machine from a computer to which the controller is connected. The printer driver, which is used during printing, is equipped with various functions that make the most out of the features of the machine. They enable you to use the same functions as those offered by the machine. When actually running a print cycle, you can specify various functions of the machine on your computer screen.



Note

When using the controller, be sure to set the machine to the On Line state.

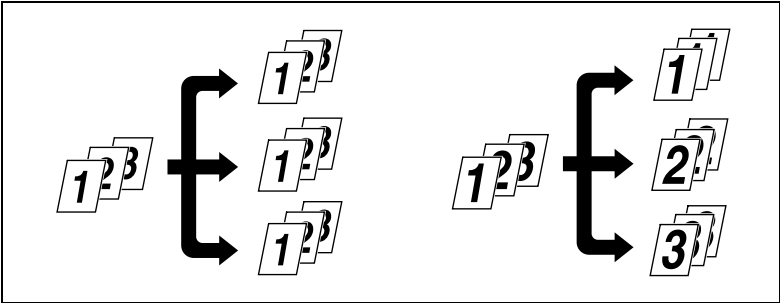
Some functions offered by the machine cannot be combined, such as Staple and Hole-Punch, and some others may not be used because of a paper size involved. The functions that cannot be selected appear dimmed.

Further, if functions that are incompatible with each other are specified, the Conflicts dialog box will appear, prompting you to change the settings. When this dialog box appears, check the details and reselect the functions to ensure function compatibility.

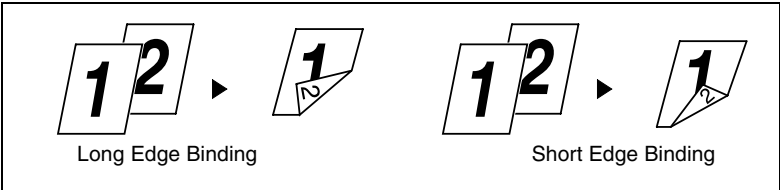
Some settings, which are defined by the machine for the restricted combinations of different functions, can at times be accepted by the printer driver. If a print command is issued from the personal computer with such settings made, the machine does not produce the output correctly or abandons the job to produce nothing. Make sure that you make correct settings.

Various Printing Functions

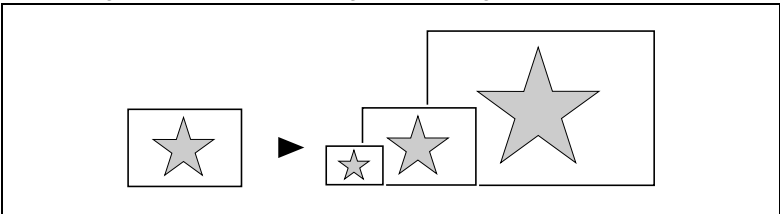
- Makes prints that are sorted into complete sets of the originals or grouped into uncollated groups, each containing prints of one original.



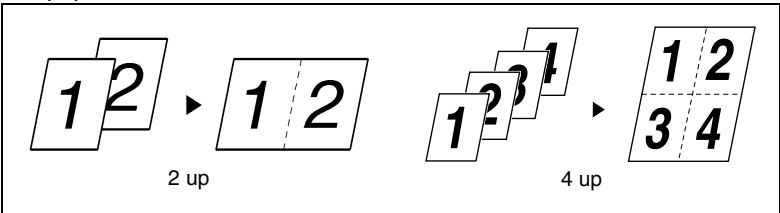
- Prints two pages of originals on both front and back sides of a single sheet of paper.



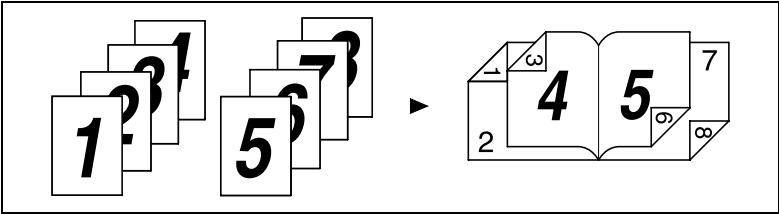
- Enlarges or reduces the image on the original.



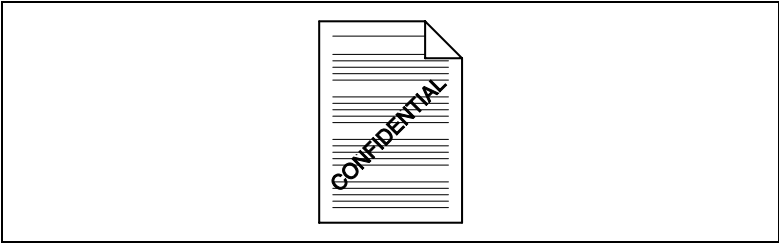
- Prints two pages or four pages of originals on a single sheet of paper. Maximum of 16 pages of originals can be printed on a single sheet of paper.



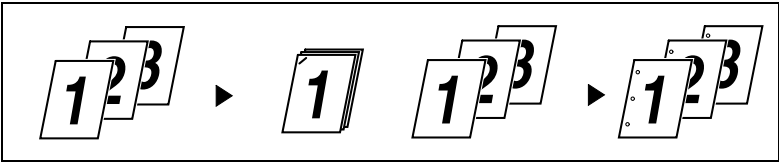
- Prints four pages of originals to both front and back sides of a single sheet of paper.



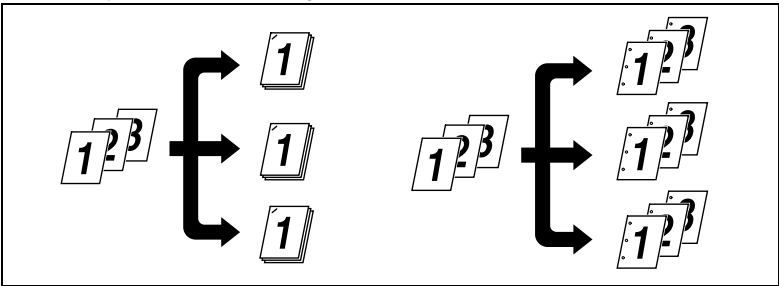
- Places text in the background.



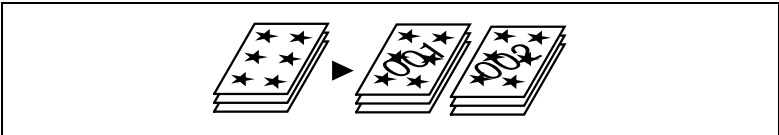
- Makes prints of complete sets of the originals, stapled together or punched for filing.



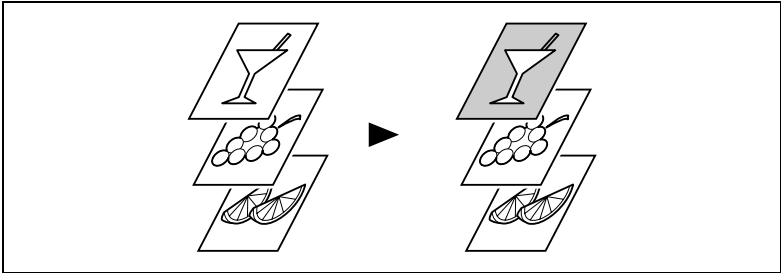
By combining Collate with other finishing capabilities, you can make complete sets of documents for immediate delivery without having to do any further processing.



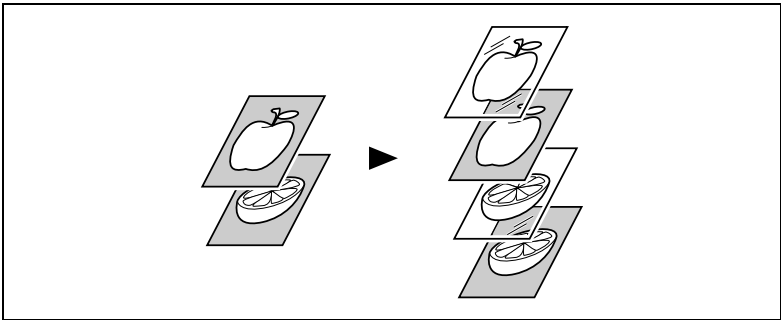
- Adds a reference number (Distribution Number) to each document set during printing.



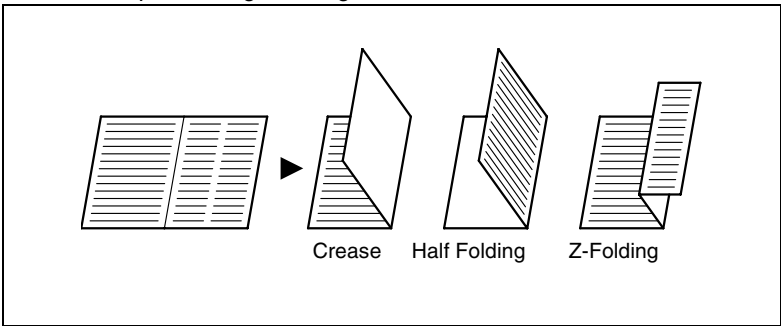
- Prints only the cover on a different type of paper (such as colored paper).



- Capable of printing on OHP transparencies. You can also insert interleaves, either blank or printed with the same contents as those on the OHP transparencies.



- Folds copies during finishing.



Administrative Functions

- Different accounts can be managed for printing records, just as when using the machine as a copier.
- Printing of confidential documents may be withheld until a legitimate password is entered on the machine.

1.2 Connecting the Controller

The controller is installed inside the machine. The installation procedures are to be performed by service personnel.

The controller is connected to the computer by a printer cable or network cable. Power to the controller is supplied from the machine.



Tip

If you cannot print from your computer, make sure that the printer cable or network cable is connected to the corresponding connectors.

1.3 Settings Made on the Machine

The following functions must be set on the machine using its Utility Mode, as they relate to the controller.

Priority Device

Select the priority use of the machine, either as a copier or printer.

- Copier: The machine is used as a copier.
- Printer: The machine is used as a printer.

On Line / Ready

- On Line key
This function is the same as that available in ordinary printers as On Line/Off Line.
Select On Line normally. A lit lamp indicates that the machine is in the On Line mode.
- Ready Lamp
Data can be transferred while this lamp stays lit up. The lamp remains blinking while data is being transferred.

1.4 Installing the Printer Drivers

To make 100% use of the functions offered by the machine mounted with the controller, install the attached printer drivers in your computer.

The controller is furnished with the following printer drivers:

- PCL6 printer driver for Windows 95
- PCL6 printer driver for Windows 98/Me
- PCL6 printer drive for Windows NT4.0
- PCL6 printer driver for Windows 2000/XP
- PS printer driver for Windows 95/98/Me
- PS printer driver for Windows NT4.0
- PS printer driver for Windows 2000/XP
- PPD file for Macintosh
- PPD Plugin for Mac OS X
- PS print utility for Linux (Redhat, SuSE, Turbo, Open)

Install the printer driver suitable for the operating system that runs on your computer. For installation procedures, see the relevant page as detailed below:

- Installing the Windows printer driver:
Windows 95/98/Me (p. 2-1)
Windows 2000/XP (p. 2-4)
Windows NT4.0 (p. 2-7)
- Installing the Macintosh PPD file and PPD Plugin file:
See “2.5 Macintosh” on page 2-13.
- Installing the Linux print utility:
See “2.4 Linux” on page 2-10.

2 Installing the Printer Driver

This chapter describes the procedure for installing the printer driver on a Windows operating system, Linux, and Macintosh.

- **Windows 95/98/Me**
For the operating environment and installation procedure for the Windows 95/98/Me printer driver, see page 2-1.
- **Windows 2000/XP**
For the operating environment and installation procedure for the Windows 2000/XP printer driver, see page 2-4.
- **Windows NT 4.0**
For the operating environment and installation procedure for the Windows NT 4.0 printer driver, see page 2-7.
- **Linux**
For the operating environment and installation procedure for the Linux printer driver, see page 2-10.
- **Macintosh**
For the operating environment and installation procedure for the Macintosh printer driver, see page 2-13.

2.1 Windows 95/98/Me

Operating Environment

This section explains the required environment for the printer driver.

Before installing the printer driver, check that your computer meets the following requirements. If it doesn't, the printer driver may not function properly.

Personal computer		IBM PC or compatible with Pentium 200MHz or higher CPU
Operating system		Windows 95 (English), Windows 98 (English) or Windows Me (English)
Memory		64MB or more
I/O interface	Parallel	Centronics interface (Conforming to IEEE1284)
	Network	10/100BaseT (UTP)
Free space on hard disk		10MB or more (PCL6) 2MB or more (PS)

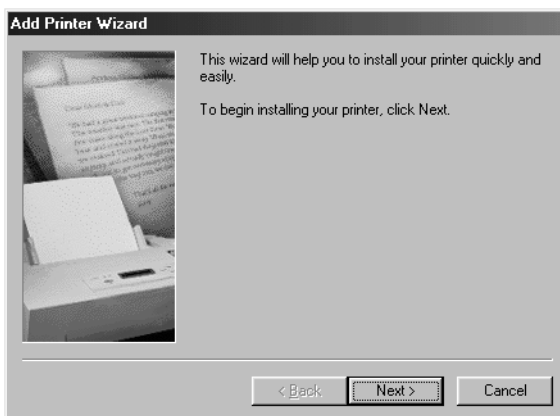
Installing (Windows 95/98/Me)



Note

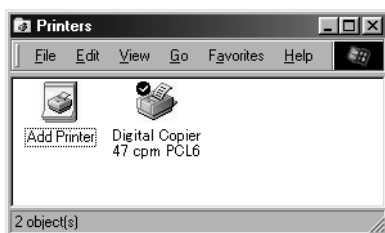
Before starting to install the printer driver, be sure first to quit all other applications.

- 1 Click the **Start** button. From the menu that appears, select **Settings**, then click **Printers**.
- 2 The Printers window will appear. Double-click the **Add Printer** icon.
- 3 The Add Printer Wizard will appear.



Follow the instructions that appears on your computer screen and make your choices. If you have problems during the installations, please refer to the User Manual in the CD-ROM that is included with the controller.

When all the files have been copied from the CD-ROM, the corresponding icon will be added to the Printers window.



This completes the installation.



...

Note

When installing the printer driver in a computer connected to the machine via a network, be sure to consult the network administrator.

Making General Settings Before Using the Printer

The printer driver requires setting of items that are common to all print jobs, including the port to which the printer cable is connected and optional devices configured with the machine. These settings must be made using properties dialog box available from the Properties command after the printer driver has been installed or whenever the operating environment is changed.

The most common settings were made when the printer driver was installed, meaning that you do not usually bother to change them. Some items must, however, be changed in the following cases.

Cases where changes are necessary	Applicable property tab
You want to add a comment to distinguish the printer from others	General
The computer's connecting port has been changed You want to change the conditions for the display of a timeout error You want to designate a port to which the machine is connected via a network (this setting must be made on a computer connected to the machine via a network)	Details
This setting is not related to printing.	Color Management
You want to share the machine with other computers connected to the same network (this setting must be made on the computer directly connected to the machine)	Sharing
You want to change the setting in the Digital Copier 47cpm PCL6 or PostScript Properties dialog box. For details, see Chapter 4.	Setup Paper Quality Device Options Setting Job Management Overlay

2.2 Windows 2000/XP

Operating Environment

This section explains the required environment for the printer driver.

Before installing the printer driver, check that your computer meets the following requirements. If it doesn't, the printer driver may not function properly.

Personal computer		IBM PC or compatible with Pentium 200MHz or higher CPU
Operating system		Windows 2000 (English) or Windows XP (English)
Memory		64MB or more
I/O interface	Parallel	Centronics interface (Conforming to IEEE1284)
	Network	10/100BaseT (UTP)
Free space on hard disk		10MB or more (PCL6) 2MB or more (PS)

Installing (Windows 2000/XP)



Note

When starting up the operating system, log in with administrator privileges.

Before starting to install the printer driver, be sure first to quit all other applications.

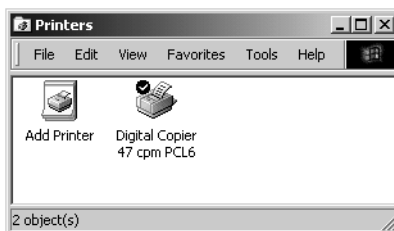
- 1 For Windows XP, click the **Start** button. From the menu that appears, click **Printers and Faxes**.
For Windows 2000, click the **Start** button, point to **Settings**, and then click **Printers**.
- 2 For Windows XP, the Printers and Faxes window will appear. Click the **Add a printer** icon.
For Windows 2000, the Printers window will appear. Double-click the **Add Printer** icon.

- 3 Click the **Next>** button to start the Add Printer Wizard.



Follow the instructions that appears on your computer screen and make your choices. If you have problems during the installations, please refer to the User Manual in the CD-ROM that is included with the controller.

When all the files have been copied from the CD-ROM, the corresponding icon will be added to the Printers window.



This completes the installation.



Note

When installing the printer driver in a computer connected to the machine via a network, be sure to consult the network administrator.

Making General Settings Before Using the Printer

The printer driver requires setting of items that are common to all print jobs, including the port to which the printer cable is connected and optional devices configured with the machine. These settings must be made using property sheets available from the Properties command after the printer driver has been installed or whenever the operating environment is changed.

The most common settings were made when the printer driver was installed, meaning that you do not usually bother to change them. Some items must, however, be changed in the following cases.

Cases where changes are necessary	Applicable property tab
You want to add a comment to distinguish the printer from others	General
You want to share the machine with other computers connected to the same network (this setting must be made on the computer directly connected to the machine)	Sharing
The computer's connecting port has been changed You want to change the conditions for the display of a timeout error You want to designate a port to which the machine is connected via a network (this setting must be made on a computer connected to the machine via a network)	Ports
You want to restrict use condition of printer. You want to change settings in spool condition. You want to change OS-dependent settings.	Advanced
This setting is not related to printing.	Color Management
You want to restrict access to the machine You want to check the accounts of the machine users	Security
This setting is not related to printing.	Processing
You want to make settings for optional equipment installed on the machine.	Device Options Setting

2.3 Windows NT4.0

Operating Environment

This section explains the required environment for the printer driver.

Before installing the printer driver, make sure that your computer meets the following requirements. If it doesn't, the printer driver may not function properly.

Personal computer		IBM PC or compatible with Pentium 200MHz or higher CPU
Operating system		Windows NT4.0 (English)
Memory		64MB or more
I/O interface	Parallel	Centronics interface (Conforming to IEEE1284)
	Network	10/100BaseT (UTP)
Free space on hard disk		10MB or more (PCL6) 2MB or more (PS)

Installation (Windows NT 4.0)



Note

When starting up the operating system, log in with administrator privileges.

Before starting to install the printer driver, be sure first to quit all other applications.

- 1 Click the **Start** button. From the menu that appears, select **Settings**, then click **Printers**.
- 2 The Printers window will appear. Double-click the **Add Printer** icon.

3 Start the Add Printer Wizard.



Follow the instructions that appears on your computer screen and make your choices. If you have problems during the installations, please refer to the User Manual in the CD-ROM that is included with the controller.

When all the files have been copied from the CD-ROM, the corresponding icon will be added to the Printers window.



This completes the installation.

**Note**

When installing the printer driver in a computer connected to the machine via a network, be sure to consult the network administrator.

Making General Settings Before Using the Printer

The printer driver requires setting of items that are common to all print jobs, including the port to which the printer cable is connected and optional devices configured with the machine. These settings must be made using property dialog box available from the Properties command after the printer driver has been installed or whenever the operating environment is changed.

The most common settings were made when the printer driver was installed, meaning that you do not usually bother to change them. Some items must, however, be changed in the following cases.

Cases where changes are necessary	Applicable property tab
You want to add a comment to distinguish the printer from others	General
The computer's connecting port has been changed You want to change the conditions for the display of a timeout error You want to designate a port to which the machine is connected via a network (this setting must be made on a computer connected to the machine via a network)	Ports
You want to specify a time frame for the machine operation	Scheduling
You want to share the machine with other computers connected to the same network (this setting must be made on the computer directly connected to the machine)	Sharing
You want to restrict access to the machine You want to check the accounts of the machine users	Security
This setting is not related to printing.	Pressing
You want to make settings for optional equipment installed on the machine.	Device Options Setting

2.4 Linux

Operating environment

This section explains the required environment for the printer driver.

Before installing the printer driver, make sure that your computer meets the following requirements. If it does not, the printer driver may not function properly.

Personal computer		IBM PC or a compatible with a Pentium 200MHz or higher CPU
Operating system		Redhat Linux ver.6.1, 6.2 Turbo Linux ver.4.0, 6.0 Open Linux ver. 2.3, 2.4 SuSE Linux ver. 6.3, 6.4
Memory		64MB or more
I/O interface	Parallel	Centronics interface (Conforming to IEEE1284)
	Network	10/100 Base-T (UTP)
Free space on hard disk		2MB or more under /opt

In this section, installation procedure is explained, referring to Redhat Linux. If a different procedure is used (depending on each OS), explanation is separately given for that section.

Installation

This section explains the installation procedure.

X window System is described here.



Note

Before installing the printer driver, quit all other applications.

- 1 Log in with root when starting OS.
- 2 Start Terminal window.
- 3 Install the controller Driver CD-ROM provided with controller in the CD-ROM drive of your personal computer.
- 4 Copy RPM file to optional directory. The file has been stored in "/Linux/PrintUtility" of the CD-ROM.
- 5 Input the following command to Terminal window and execute:
rpm -ivh diutil_pack_file

**Note**

Input file name to “diutil_pack_file”.

- 6 Installation will start when the above command has been executed.

**Note**

The installation procedure shown above cannot be used for the following Operating Systems. Use the installation procedure given on the next page:

Open Linux ver. 2.4

SuSE Linux ver. 6.4

After installation is complete, the screen shown below will appear.

```
root@k-pc18: /root
File Edit Settings Help

[root@k-pc18 /root]# rpm -ivh diutil-2.0.0.i386.rpm
diutil: *****
diutil: Symbolic link "/usr/local/bin/dilupr" was created.
diutil: Symbolic link "/usr/local/bin/dipj1" was created.
diutil: Symbolic link "/usr/local/bin/diallog" was created.
[root@k-pc18 /root]#
```

If an error is output during installation, execute the following commands in sequence:

```
# rpm -ivh diutil_pack_file --nodeps
# ln -s /usr/lib/libtcl8.0.so /usr/lib/libtcl.so
# ln -s /usr/lib/libtk8.0.so /usr/X11R6/lib/libtk.so
# ldconfig -n /usr/lib/
# ldconfig -n /usr/X11R6/lib/
```

**Note**

Input file name to “diutil_pack_file”.

By executing the above commands in sequence, installation can be performed correctly.

Printer setting with X window System

Making general settings before using the printer

The printer driver requires setting of items that are common to all print jobs, including the port to which the printer cable is connected and any optional devices configured with the machine: Note that these settings must be made only after the printer driver has been installed.

Redhat Linux

With Redhat Linux, setting is performed from **Printer Configuration** in the control panel.

Turbo Linux

With Turbo Linux, execute command from Terminal window for setting printer.

Open Linux

With Open Linux, printer setting can be performed using dialog box.

SuSE Linux

With SuSE Linux, command should be executed from Terminal window to set printer.

How to display Printer Utility dialog box

If you use X window, printer utility setting can be specified from dialog box. Dialog box can be displayed only with command operation, so **didialog** command is used here.

Input the following command on the Terminal window and execute: The dialog box will appear.

```
# /opt/diutil/bin/didialog -m [Model name] -P [Printer name] -a [Area]
```

- Specify the printer name which was designated during setting.
- Input model name for [Model name].
- Specify [Area]; select [us] for Inch area, [ec] for Metric area.

2.5 Macintosh

Operating environment

Before installing the printer driver, make sure that your computer meets the following requirements. If it doesn't, the printer driver may not function properly.

Operating system	Apple Macintosh System7.5.3 or later, 8.x, 9.x or Mac OS X
Personal computer	Apple Macintosh computer or a Macintosh-compatible computer
I/O interface	Ethernet port
Memory	16MB or more
Disk drive	CD-ROM drive is required for installation only.
Free space on hard disk	2MB or more
Recommended printer software	LaserWriter 8.5.1. or later, LaserWriter 8.6 or later



Note

Do not use an Ethernet cable of low quality: Defective printing could result.

Installation (Macintosh OS 7/8/9)

This section explains the installation procedure for the Macintosh printer driver under Macintosh OS 7, 8 or 9.



Note

For details on the procedure for installing the printer driver on a Mac operating system, refer to "Installation (Mac OS X)" on page 2-19.

The following procedures are concerned with Apple Macintosh system7.5.5 and LaserWriter8.5.1.



Note

When OS with other version or LaserWriter is used, procedures may vary slightly.

Make sure that the controller and computer are properly connected to each other with an Ethernet cable.

- 1 Turn ON the machine.
- 2 Turn ON the computer and start the Macintosh OS.
- 3 Install the printer controller CD-ROM in the CD-ROM drive of your computer.
- 4 Double-click the **Macintosh HD** icon on the desktop.
- 5 Double-click the **System Folder**.
- 6 Double-click **Extensions** folder.
- 7 Double-click **Printer Description** folder.
- 8 Drag the **Digital Copier**cpm-PS.ppd** file in the **PPD** folder of the CD-ROM to the **Printer Description** folder opened in step 7 to copy the file.

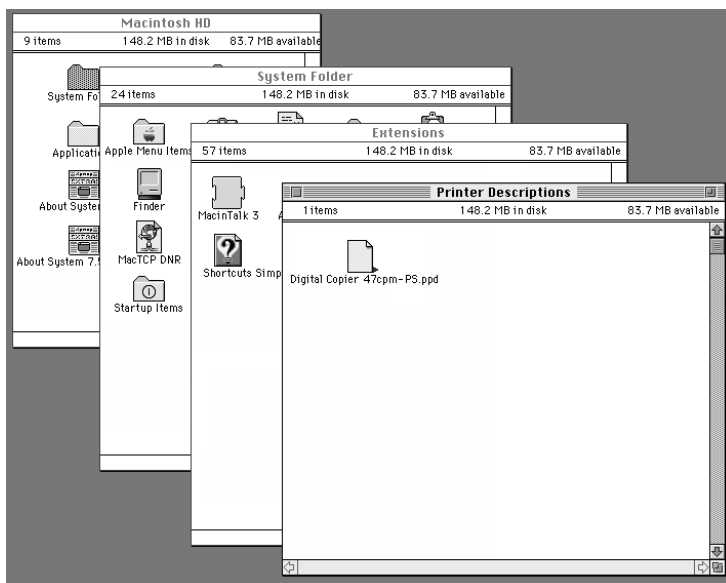


Note

Specify proper file according to the machine used.

Digital Copier**cpm-PS.ppd

_____ Model name of the machine



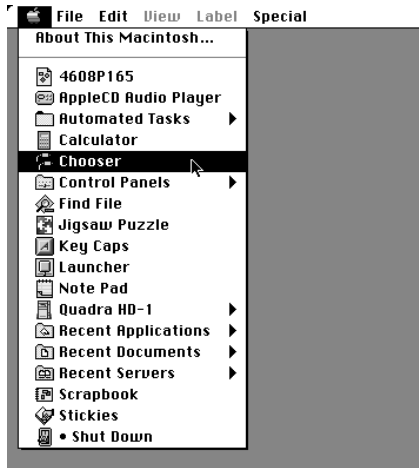
9 Remove the CD-ROM from the CD-ROM drive.

10 Select **Chooser** from the Apple menu.



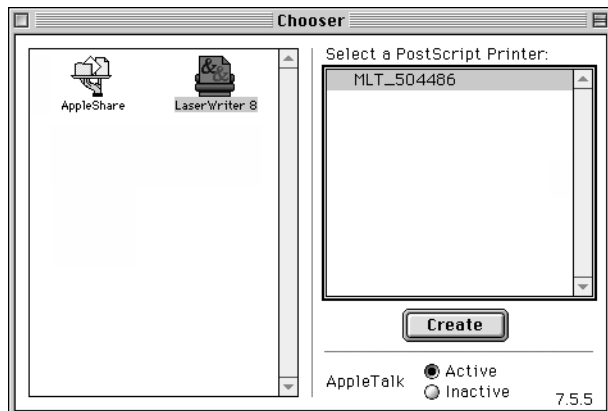
Note

The steps that follow will apply when the LaserWriter printer driver has previously been installed in the Macintosh computer.

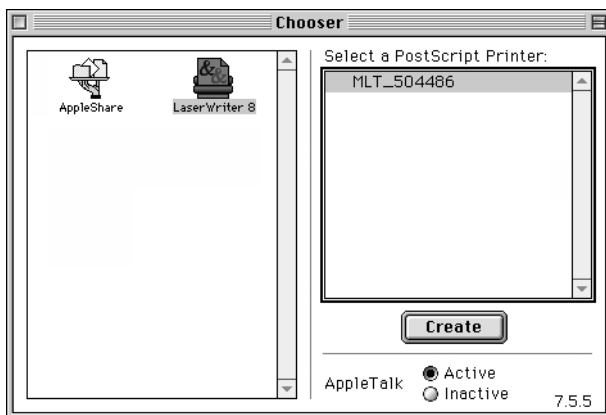


11 The Chooser dialog box will appear.

Click the **LaserWriter** icon.



- 12** The printer name set up with the NIC appears in the list under **Select a PostScript Printer**. Select the printer and click the **Create** button.

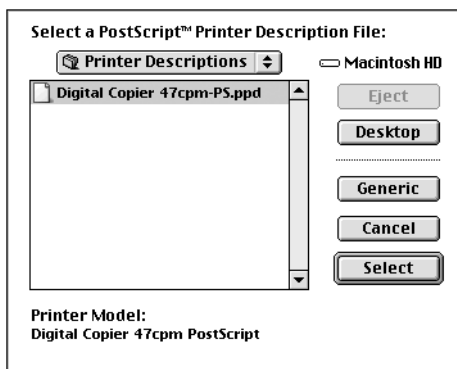


- 13** The **Select a PostScript™ Printer Description File** dialog box will appear. Select **Digital Copier 47cpm-PS.ppd** from the dialog box and click the **Select** button.

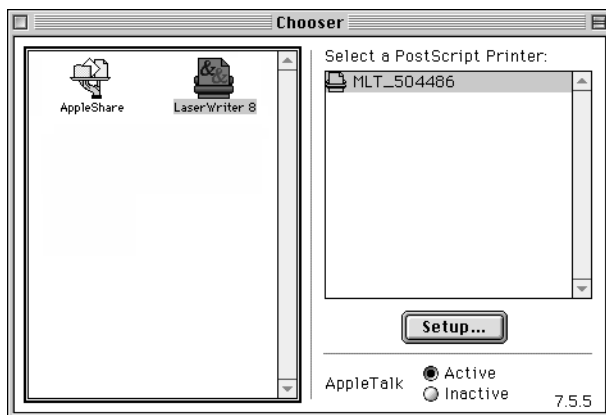


Note

The following procedure is explained for Digital Copier, specified for inch area, as an example: Use by specifying proper file according to the machine used.

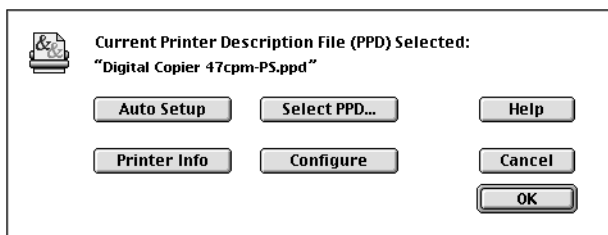


- 14 After the installation procedures have been completed, a small printer icon will appear to the left of the printer name.

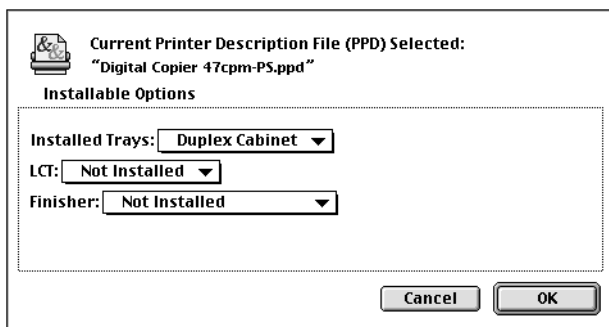


- 15 Click the **Setup...** button.

- 16 Click the **Configure** button.



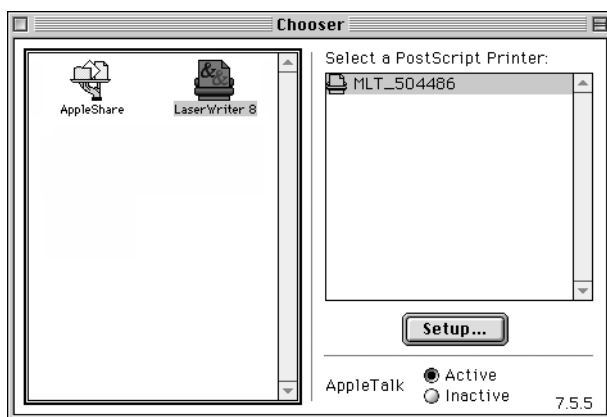
- 17 Set the operating environment of the controller and click the **OK** button.



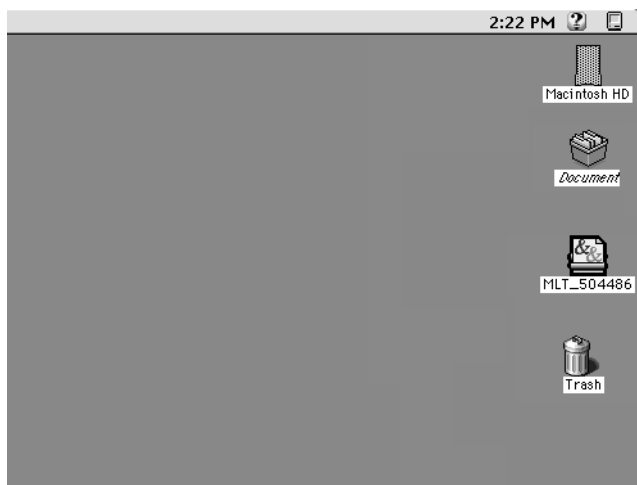
Tip

For details of the screen components, refer to the User Manual on the controller CD-ROM.

- 18 Click the **OK** button.
- 19 The Chooser dialog box will reappear. Close the Chooser dialog box.



20 A printer icon will appear on the desktop.



Installation (Mac OS X)

This section explains the installation procedure for the Macintosh printer driver for Mac OS X.

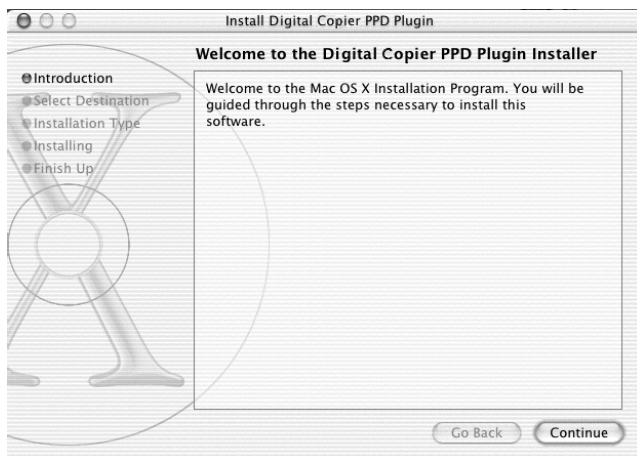


Note

This printer driver is compatible with Mac OS X version 10.2 or later.

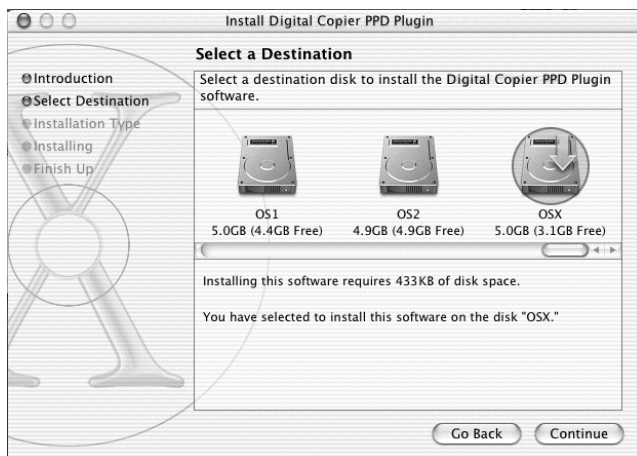
- 1 Turn on the machine.
- 2 Turn on the computer and start up the Mac OS.
 - When starting up Mac OS, log in with administrator privileges.
- 3 Install the printer controller CD-ROM in the CD-ROM drive of your computer.
- 4 Copy **Digital Copier 47cpm-PS.ppd** and **Digital Copier PPD Plugin.dmg** to the desktop from the PPD folder on the CD-ROM.
- 5 Double-click **Digital Copier PPD Plugin.dmg**, which was copied to the desktop.

- 6 Double-click **Digital Copier PPD Plugin.pkg** to start it.
 - The PPD Plugin installer starts up.
- 7 Click the **Continue** button.



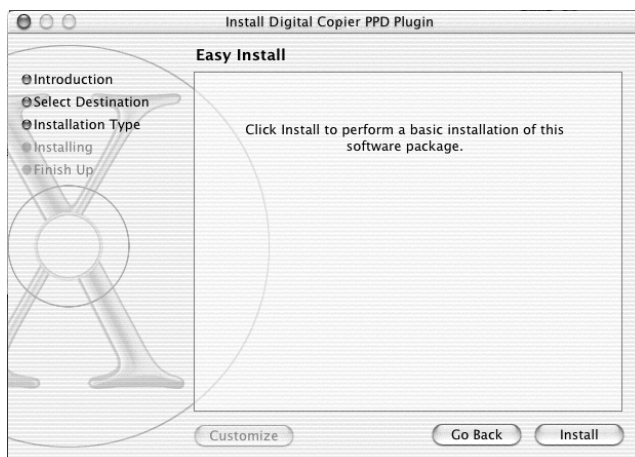
- 8 Select the partition where the software will be installed, and then click the **Continue** button.

As an example, the dialog box below shows the installation on the OSX disk.



9 Click the **Install** button.

The plugin for Digital Copier PPD is installed.



10 Click the **Close** button.

This completes the installation of the PPD plugin. Next, install the Digital Copier printer driver.

11 Double-click the **MacOSX** icon on the desktop.

12 Click the **Application** icon

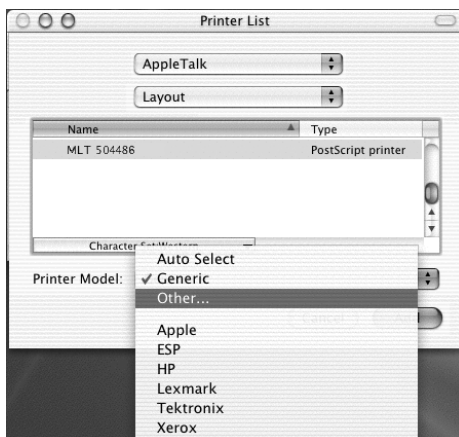
13 Double-click the **Utility** folder.

14 Double-click the **PrintCenter** icon.

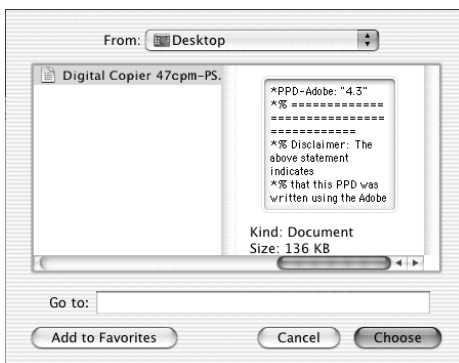
15 Click the **Add...** button.



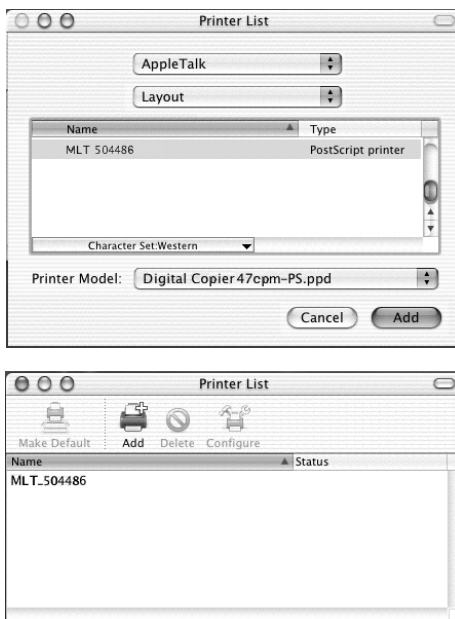
16 Select **Other...** beside **Printer Model:**.



17 Select either **Digital Copier 47cpm-PS.ppd**, which were copied to the desktop in step 4, and then click the **Choose** button.

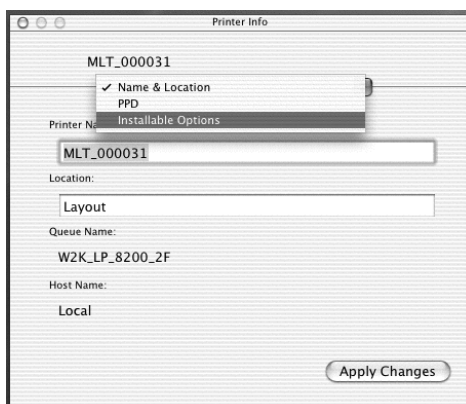


- 18** Select the appropriate printer model, and then click the **Add** button.
The Digital Copier printer driver is installed.

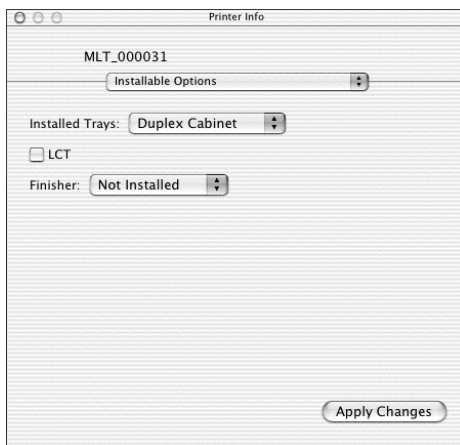


- 19** From the **Printers** menu, click **Show Info**.
The Printer Info property dialog box appears.

- 20** Select **Installable Options**.



21 Enter the printer settings, and then click the **Apply Changes** button.



Note

For details on the screen components, refer to the User Manual on the controller CD-ROM.

22 Close the Print Center dialog box.

3 Network Settings

3.1 Introduction

Though this Network Card does not support NetBEUI protocol, it supports TCP/IP and IPX/SPX, which provides plenty of connection flexibility for the Windows computer.

A Windows 95/98/Me network printer can be used by going through a Novell NetWare or Windows 2000/NT server. This Network Card, however, can be configured with its bundled peer-to-peer printing programs for peer-to-peer printing without a server. Peer-to-peer printing can be performed using TCP/IP or IPX/SPX.

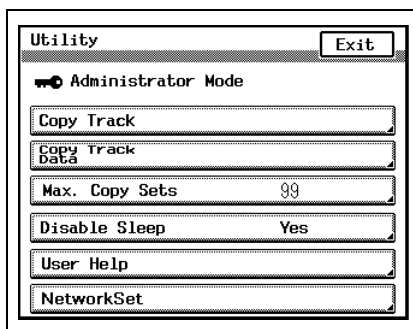
There are two ways you can print from Windows NT 4.0 with TCP/IP: using the bundled IP Peer-to-Peer Printing Program, and using the Windows NT standard LPR printing function.

There are two ways you can print from Windows 2000/XP with TCP/IP: using the Windows 2000/XP standard LPR printing function, and using the Windows 2000/XP standard IPP printing function.

3.2 Specifying the IP Address From the Printer's Touch Panel

Setting procedure

- 1 Press the [Utility] key.
- 2 Touch [Administrator Mode] and input the Administrator code.
- 3 Touch [NetworkSet].



- 4 Touch [IP Address].

Utility

NetworkSet Enter

IP Address

Subnet Mask

Default Gateway

- 5 With the keypad in the operation panel, type in the IP address, and then touch [Enter].

Utility

Input IP Address.

IP Address Cancel Enter

192.9.200.200

← →

- 6 With the keypad in the operation panel, type in the subnet mask, and then touch [Enter].

Utility

Input Subnet Mask.

Subnet Mask Cancel Enter

255.255.255.0

← →

- 7 With the keypad in the operation panel, type in the default gateway, and then touch [Enter].

Utility

Input Default Gateway.

Default Gateway Cancel Enter

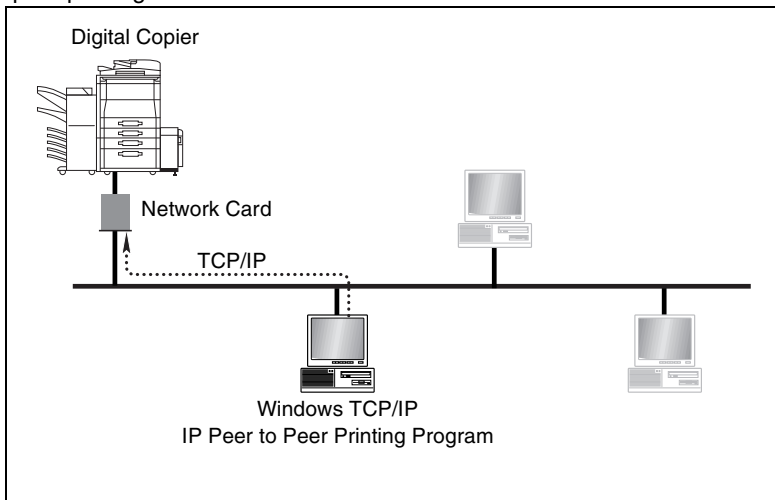
192.9.200.1

← →

- 8 In order to activate the address settings, turn the printer off, then on again.

3.3 Peer-to-Peer Printing with TCP/IP

Use the bundled IP Peer-to-Peer Printing Program for TCP/IP peer-to-peer printing under Windows.



Note

Refer to the User Manual on the controller CD-ROM for details.

Peer-to-Peer Printing Program is a Windows utility that lets you output directly to a printer from a computer on a network, without going through a server.

Use this program for peer-to-peer printing under TCP/IP.

Requirements

- Computer must have TCP/IP installed and enabled.
- Network Card must have valid IP parameters assigned.



Note

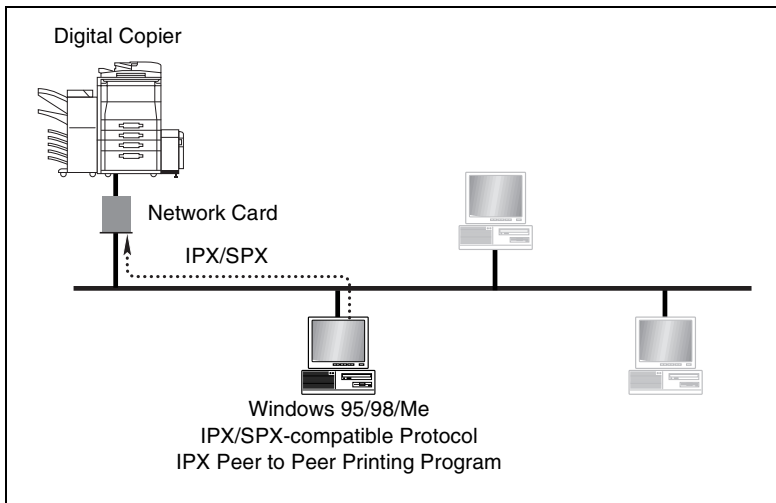
Refer to the applicable Windows documentation for information about installing TCP/IP under Windows.

Refer to the User Manual on the controller CD-ROM for details.

3.4 Peer-to-Peer Printing with IPX/SPX

Use the bundled IPX Peer-to-Peer Printing Program for IPX/SPX peer-to-peer printing under Windows.

With IPX Peer-to-Peer Printing Program, there is no need to run NetWare Client.



Note

Refer to the User Manual on the controller CD-ROM for details.

Use this program for peer-to-peer printing under IPX/SPX. Just by installing this program, you can specify an IPX-based printer on the network as a printer port.

Requirements

- Computer must have IPX/SPX-compatible protocol installed.



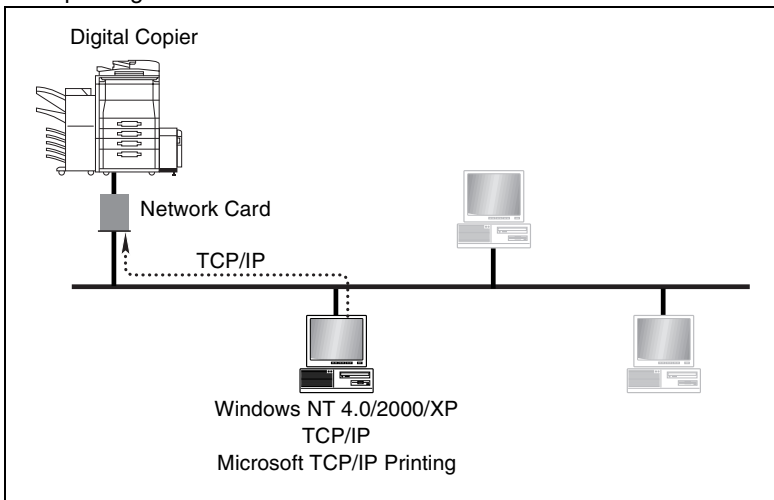
Note

Refer to the applicable Windows documentation for information about installing IPX/SPX under Windows.

Refer to the User Manual on the controller CD-ROM for details.

3.5 LPR Printing

This section explains how to use the Windows NT 4.0/2000/XP standard LPR printing function.



Note

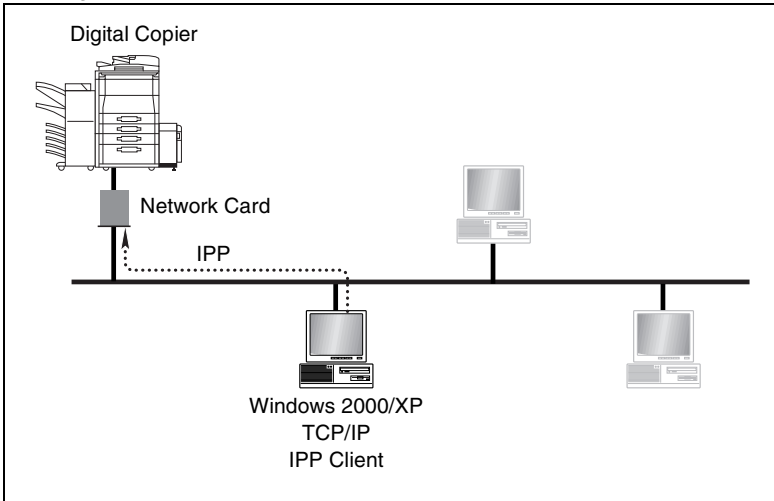
Refer to the User Manual on the controller CD-ROM for details.

Requirements

- Computer must have TCP/IP installed and enabled.
- Network Card must have valid IP parameters assigned.

3.6 IPP Printing

This section explains how to use the Windows 2000/XP standard IPP printing function.



Note

Refer to the User Manual on the controller CD-ROM for details.

Requirements

- Computer must have TCP/IP installed and enabled.
- Network Card must have valid IP parameters assigned.

3.7 Specifying network settings from Printer Management Utility

Access

Printer Management Utility can be accessed directly from a Web browser.

- 1 Start the Web browser.
- 2 In the URL field, enter the IP address of the printer controller as shown below.

`http://<IP address of printer controller>/`

(Example) When the IP address of the printer controller is 192.9.200.200:

`http://192.9.200.200/`

- 3 This causes Printer Management Utility screen to appear.

Operation

Printer Management Utility operation is identical to that for Internet Web pages. Clicking a hot link jumps to the link destination, and the **Back** and **Forward** buttons scroll through pages backwards and forward.

Logging In to the Admin Mode

After you log in to Printer Management Utility in the Admin Mode, you can change the configuration of the Digital Copier settings.

- 1 Type the administrator password into the **Admin Password** box. The initial default administrator password is sysadm. See “Preference” for information about how to change the password.
- 2 Click the **Log-in** button to log in to the Admin Mode.
- 3 When you want to log out, click the **Log-out** button.



Note

Log out is performed automatically if no operation is performed for more than 10 minutes.

*On the **Network** tab, a password input text box appears on each setting screen. You must be able to input the correct password in order to change **Network** tab settings. The password you should input here is the same as the Admin Password you input on other tabs.*

Network Tab

Use the **Network** tab for configuring the Printer Controller network interface.

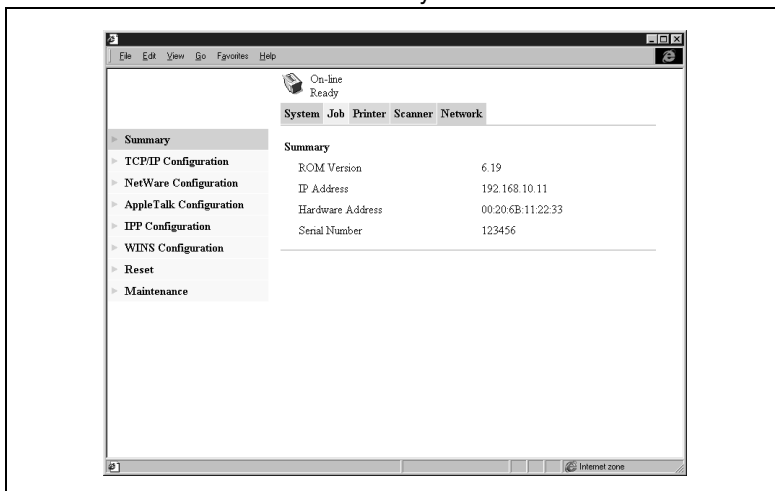


Note

*On the **Network** tab, you must type the password into the **Password** box that appears on the setting screen you select on the menu. Note, however, that you need to input the password on the **Network** tab only once per session. After you input the password, the **Password** box does not appear any more on other **Network** tab setting screens during the current session.*

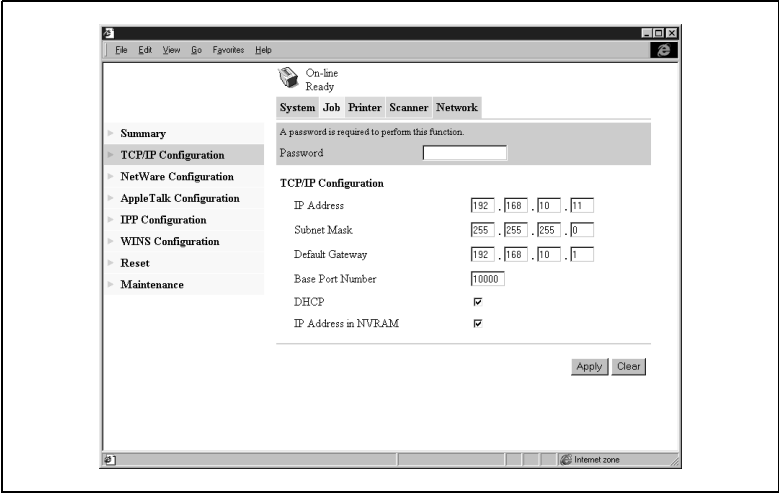
Summary

This screen appears when you click the **Summary** menu on the **Network** tab. Use this screen to view a summary of the network interface card.



TCP/IP Configuration

This screen appears when you click the **TCP/IP Configuration** menu on the **Network** tab. It lets you change a number of network interface card TCP/IP settings.

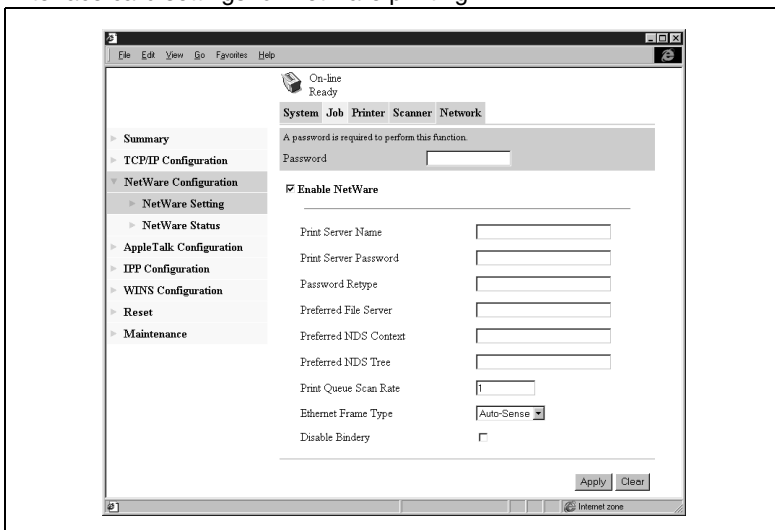


Note

Use only IP parameters that have been specified or approved by your network administrator.

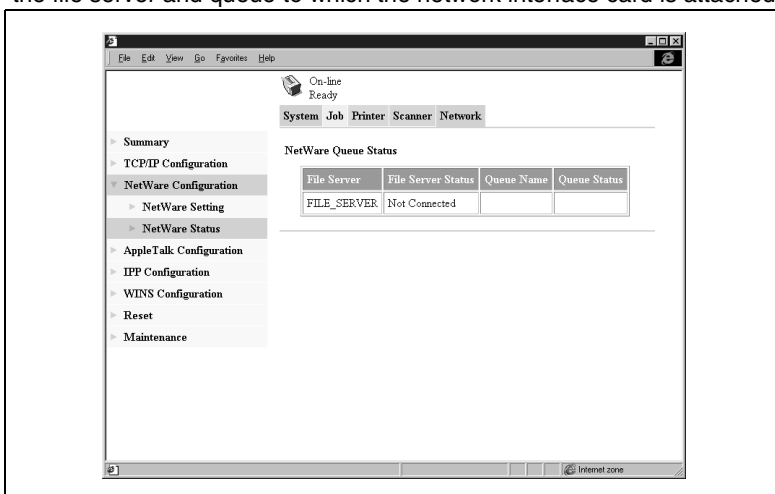
NetWare Configuration

Sub-menus appear when you click the **NetWare Configuration** menu on the **Network** tab. Use the sub-menus to display and configure the network interface card settings for NetWare printing.



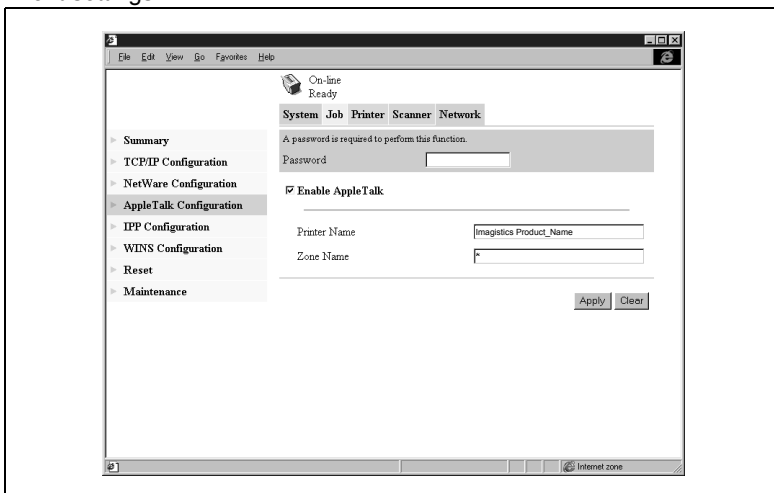
NetWare Status

This screen appears when you click the **NetWare Status** sub-menu under the **NetWare Configuration** menu. Use this screen to check the status of the file server and queue to which the network interface card is attached.



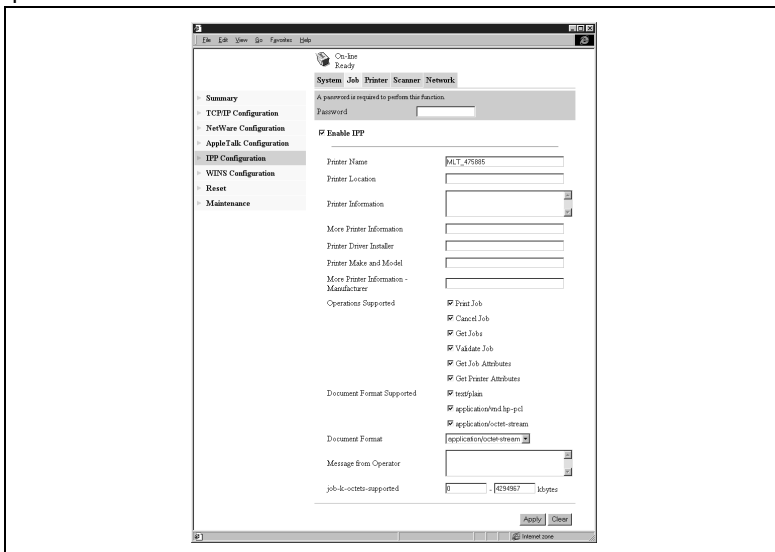
AppleTalk Configuration

This screen appears when you click the **AppleTalk Configuration** menu on the **Network** tab. It lets you change a number of AppleTalk environment settings.



IPP Configuration

This screen appears when you click the **IPP Configuration** menu on the **Network** tab. It lets you change Internet Printing Protocol (IPP) settings. You can configure the printer functions that are controlled by IPP and the printer information that can be seen from IPP clients.



Note

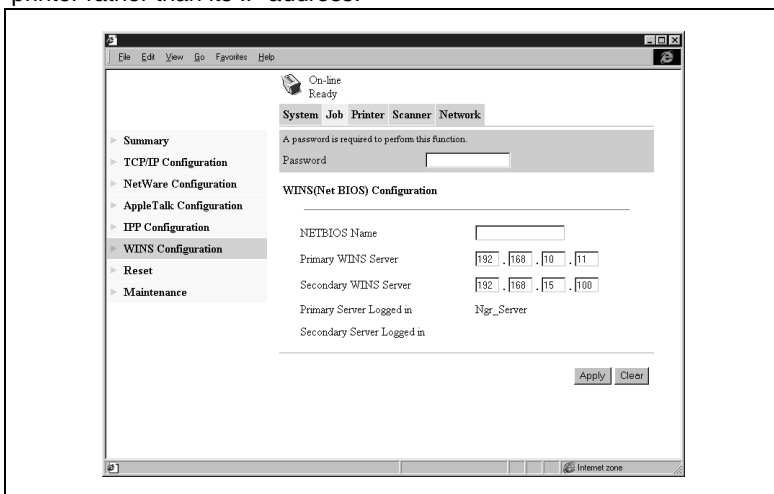
Standard access for IPP printing is:

`http://<IP Address>:631/nic/Print`

For details about IPP printing, see “5 Network Interface Card”.

WINS Configuration

This screen appears when you click the **WINS Configuration** menu on the **Network** tab. It lets you change WINS settings. WINS (Windows Internet Name Service) makes it possible for a device, such as your network interface card, to register a NetBIOS name (like MLT_995243) along with its current IP address (like 192.9.200.200). A client wanting to contact the printer uses the WINS server to match the NetBIOS name with an IP address. Most users will find it easier to remember the NetBIOS name for the printer rather than its IP address.



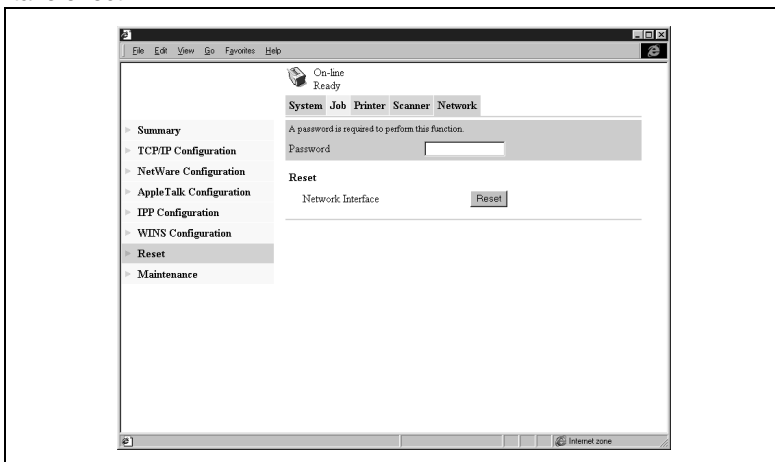
After you configure the NetBIOS (WINS) settings, restart the printer.

The network interface card's status page should now show that the network interface card is successfully registered with the WINS server. The items labeled **Primary Server Logged in** and **Secondary Server Logged in** on the **WINS Configuration** screen now indicate which WINS server(s) the network interface card is registered with.

Under normal circumstances, your network interface card automatically renews its registration with the WINS server before its lease expires.

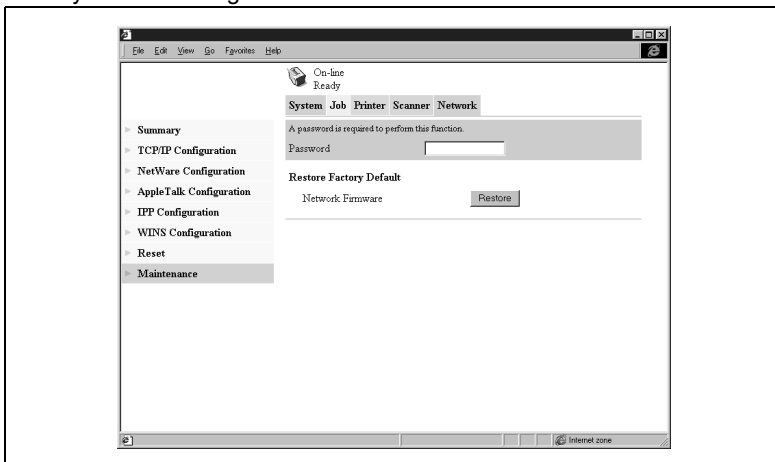
Reset

This screen appears when you click the **Reset** menu on the **Network** tab. Use this screen to reset the network interface card so new settings can take effect.



Maintenance

This screen appears when you click the **Maintenance** menu on the **Network** tab. Use this screen to restore the network interface card to its initial factory default settings.



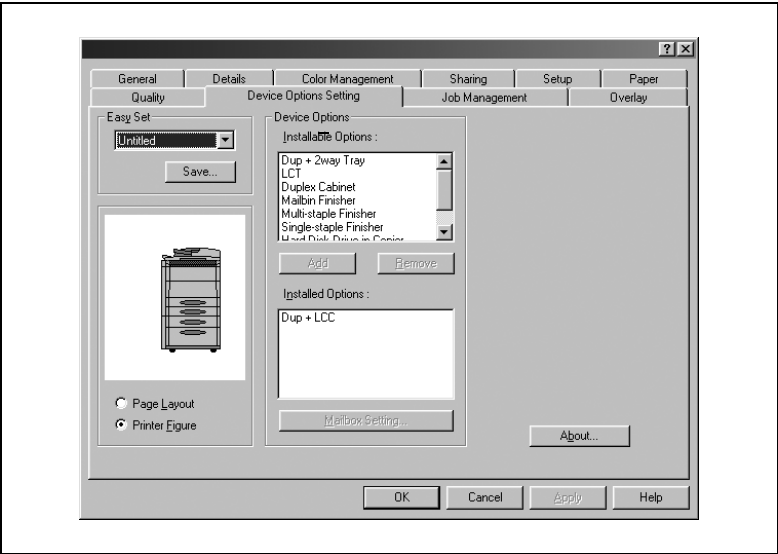
Note

After performing a Reset or Maintenance, turn the digital copier off, then on again.

4 Properties Settings

4.1 Description of each tab (Windows)

Each tab enables you to change the settings indicated below. For a detailed description of each function, refer to the User Manual on the controller CD-ROM.



Property tab	Outline of settings that can be changed
Setup	Allows you to set the paper take-up tray and paper exit tray. Also allows you to set high level printing functions such as two-sided printing, booklet creation, N-up printing, OHP interleaving, Watermark, Cover Mode, Staple, Punch, and Folding.
Paper	Allows you to set basic printing items such as number of copies, paper size, print orientation and print zoom ratio. Also allows you to set functions related to sorting.
Quality	Allows you to set general items related to graphics, such as resolution, halftone processing and image processing method. Also allows you to set TrueType fonts.
Device Options Setting	Allows you to set option equipment installed on the machine.
Job Management	Sets the copy track function. Allows you to lock a printing job. Also allows you to print the distribution number.
PostScript (PS driver only)	Allows you to make detailed settings related to PostScript.

Property tab	Outline of settings that can be changed
–	Allows you to save and read the contents of the settings on a Setup , Paper , Quality , Job Management , Device Options Setting or Post-Script tab.

**Note**

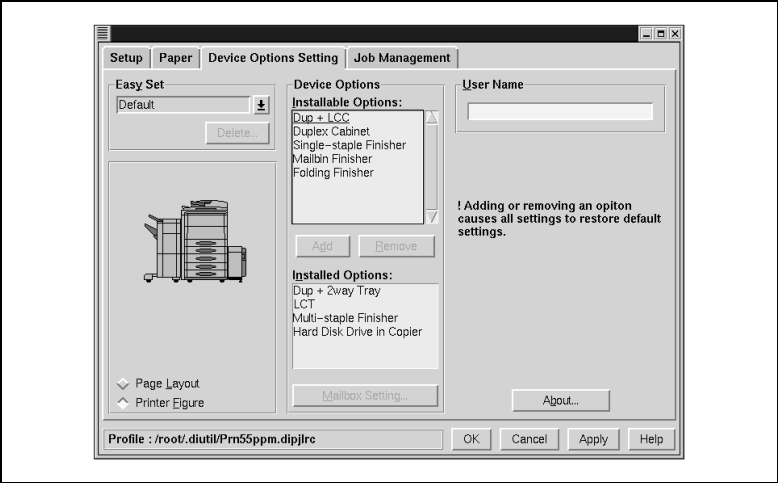
Refer to Chapter 2 for the procedure for displaying Properties.

Note that different settings must be made for each driver.

The differences between each driver are indicated based on the PCL6 version driver for Windows 98.

4.2 Description of each tab (Linux)

Each tab enables you to change the settings indicated below. For a detailed description of each function, refer to the User Manual on the controler CD-ROM.



Property tab	Outline of settings that can be changed
Setup	Allows you to set the paper take-up tray and paper exit tray. Also allows you to set high level printing functions such as two-sided printing, OHP interleaving, Cover Mode, Staple, Punch, and Folding.
Paper	Allows you to set basic printing items such as number of copies, paper size and print orientation. Also allows you to set functions related to sorting.
Device Options Setting	Allows you to set option equipment installed on the machine.
Job Management	Sets the copy track function. Allows you to lock a printing job. Also allows you to print the distribution number.
-	Allows you to save and read the contents of the settings on a Setup , Paper , Job Management or Device Options Setting property sheet.



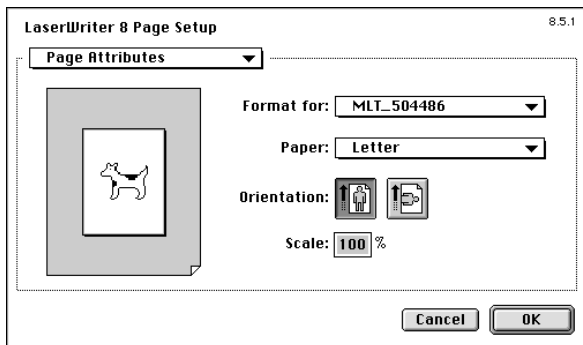
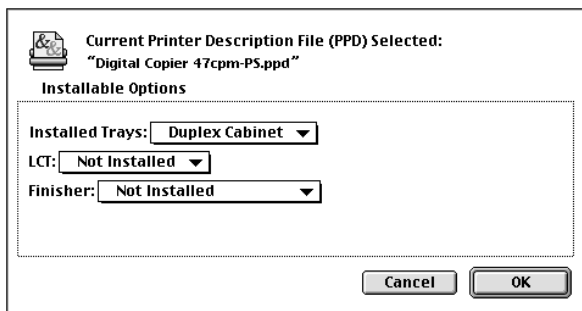
Note

Refer to Chapter 2 for the procedure for displaying Properties.

Differences between each OS are indicated based on Redhat Linux ver. 6.2.

4.3 Print options (Macintosh OS 7/8/9)

Each print option allows you to make specific settings as detailed below. For a detailed description of each function, refer to the User Manual on the controller CD-ROM.

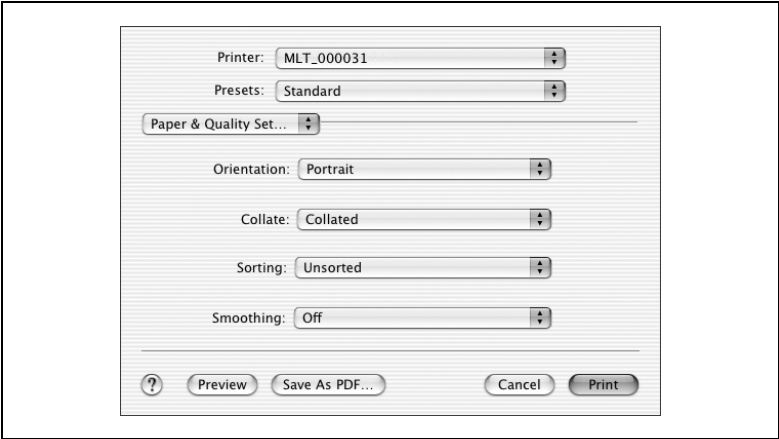


Print Option	Available Settings
Installable Options	Allows you to make settings for options installed on the machine.
Page Attributes	Allows you to make the basic settings for printing.
PostScript Options	Allows you to make visual-effect and font-related settings.
General	Allows you to set the pages and the number of copies for printing.
Background Printing	Allows you to make settings for background printing.
Cover Page	Allows you to print out a page of descriptive data about each print job.
Color Matching	Allows you to set color data output.
Layout	Allows you to set the printing layout.
Error Handling	Allows you to set the handling of error information.
Save as File	Allows you to make settings for saving data in files.

Print Option	Available Settings
Printer Specific Options	Allows you to make not only such basic settings, such as paper source and exit port, but also enhanced functions, including duplex printing, OHP interleaving, and Cover mode. It further allows you to set finishing capabilities, including sort, staple, punch, and folding, for those occasions when you need to make multiple complete sets of the original document.

4.4 Print options (Mac OS X)

Each print option allows you to make specific settings as detailed below. For a detailed description of each function, refer to the User Manual on the controller CD-ROM.



Print Option	Available Settings
Copies & Pages	Allows you to set the pages and the number of copies for printing.
Layout	Allows you to set the printing layout.
Error Handling	Allows you to set the handling of error information.
Paper & Quality Settings	Allows your to make the basic settings for printing.
Paper Source Settings	Allows you to set the paper source.
Job Management	Allows you to print out a page of descriptive data about each print job.
Finishing Settings	Allows you to set finishing capabilities, including sort, staple, punch, and folding, for those occasions when you need to make multiple complete sets of the original document.
Summary	Displays a list of the current print settings.

**Note**

The Copies & Pages, Layout, Output Options and Error Handling settings are supported by Print Center. Refer to the document corresponding to the operating system being used.

No conflict warnings will appear, indicating that incompatible functions are specified.

5 Network Interface Card

5.1 Getting ready

This Network Card is a multi-protocol network card that provides Ethernet connection for the printer controller and offers the following features.

- Automatic Ethernet type detection (10BaseT, 100BaseT)
- Fully transparent AppleTalk printing support for the Macintosh, including support for binary PostScript printing.
- Peer-to-peer printing program allows printing on a network without going through a server
 - Peer-to-Peer Printing with TCP/IP (Windows 95/98/Me/NT 4.0)
 - Peer-to-Peer Printing with IPX/SPX (Windows 95/98/Me)
- Novell NetWare PSERVER support under bindery base or Novell Directory Services (NDS)
- lpr/lpd functions under TCP/IP
- SNMP control using MIB-II and private MIB
SNMP support using standard MIB on a compatible printer or printer-specific MIB
- Onboard HTTP server allowing configuration of network function settings using a Web browser
- Direct printing from an IPP client
- SLP (Service Location Protocol) support

Utility software (on the CD-ROM)

The following items are contained in the nicutlty folder on the CD-ROM that comes with the printer controller.

- Discovery Program
- IPX/IP Management Access Program (MAP)
- Peer-to-Peer Printing Programs
 - IP Peer-to-Peer Printing Program
 - IPX Peer-to-Peer Printing Program
- BOOTP Program
 - BootPL32.exe
- NetWare Setup Utility Program
 - NWSetup
- Macintosh Utility Program
 - NIManage (AppleTalk Utility)
- UNIX TCP/IP Utility Programs
- MIB Setting File

The ReadMe file on the CD-ROM contains the latest information about each of the network software applications. Be sure to read the ReadMe file before using the network software.

System requirements

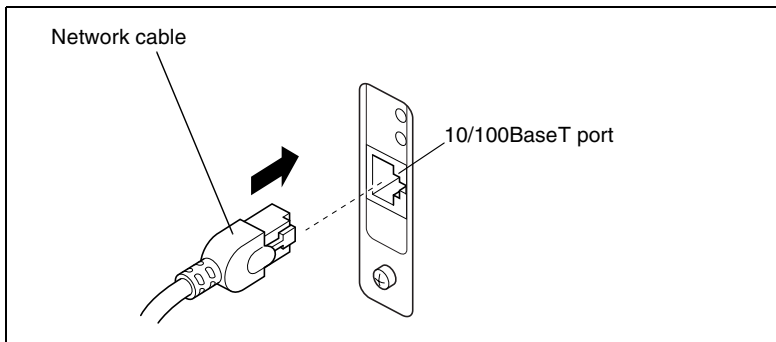
The following table describes the system requirements for using the Network Card hardware and software.

Version of Protocol or NOS	Novell NetWare Version 4.x or 5.x
	Macintosh System 7.x, 8.x, 9.x, Mac OS X
	Windows, or LAN Server systems supporting lpr over TCP/IP
	Red Hat Linux 6.1 or later, SuSE Linux 6.3 or later, OpenLinux 2.3 or later, Turbolinux 4.0 or later.
Software	Novell NetWare printing requires NetWare Capture, NPRINT and PCONSOLE (later than 1.0) utilities. NWSetup requires Windows 95/98/Me/2000 or Windows NT 4.0, and the Novell 32-bit client.
	The IP Peer-to-Peer utility requires Windows NT 4.0; Windows 95/98/Me.
	The IPX Peer-to-Peer utility requires Windows 95/98/Me.
	The MAP utility requires Windows NT 4.0; Windows 95/98/Me/2000. MAP also requires a browser such as Microsoft Internet Explorer or Netscape.
	TCP/IP setup and maintenance may be done with Telnet. Monitoring and maintenance with HTTP requires a suitable Internet Web browser program supporting HTML.
	AppleTalk printing requires printer PPD appropriate to the Digital Copier. AppleTalk NIManage Utility Program is provided for setup and maintenance (except Mac OS X).
Hardware	Support for 10 or 100 megabit Ethernet networks: 10/100BaseT (twisted pair cables) and hardware
	CD-ROM drive

5.2 Setting up the network card

Connecting a network cable

- 1 Make sure that Digital Copier power is turned off.
- 2 Connect the network cable to the Network Card.



- Insert the plug into the 10-100BaseT port on the rear panel of the network card and press it in until you hear it click securely into place.
- 3 Power up the Digital Copier and check for abnormalities.



Important!

Use only Category 5 shielded 10/100BaseT cable.

Configuring the network card

You must first configure the Network Card and your computer before you can print using the Network Card. The settings you need to make depend on the configuration of your network environment.

Refer to the User Manual on the controller CD-ROM for details.

6 Scanner Mode



Note

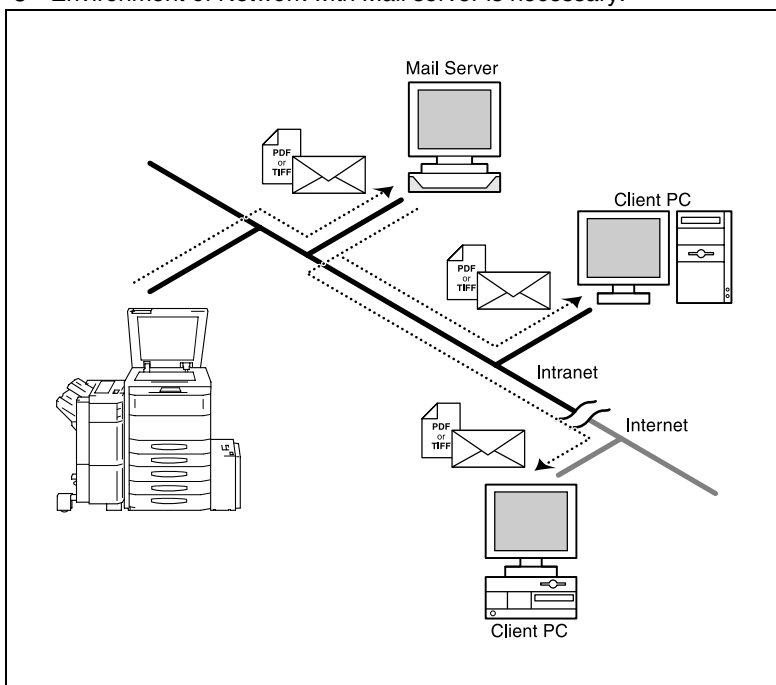
In order to use the scanning function, the optional network interface card must be installed.

6.1 Outline

There are two scan modes you can use with this machine: Use the one appropriate to the network environment and purpose of use.

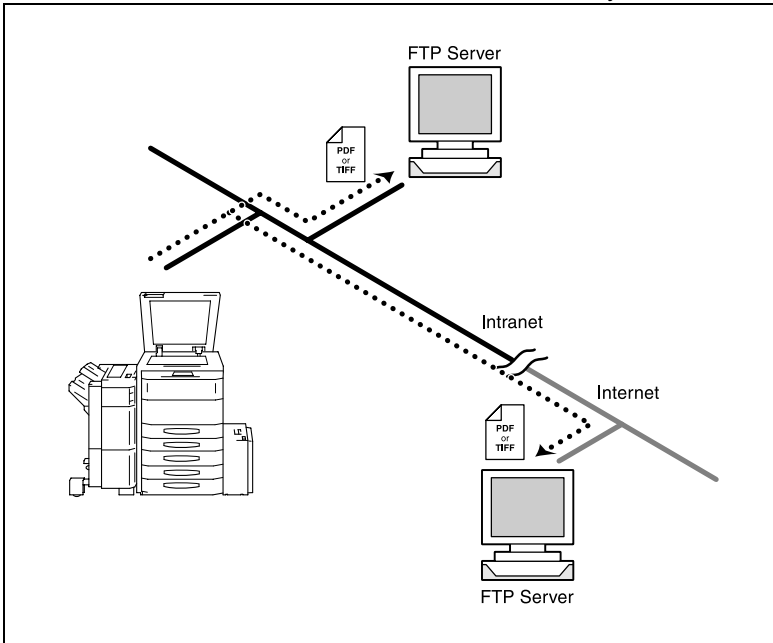
E-Mail (Scan to E-mail)

- Transmits scanned document as attached file with E-mail.
- Suitable for sending low-resolution data.
- Environment of Network with Mail server is necessary.



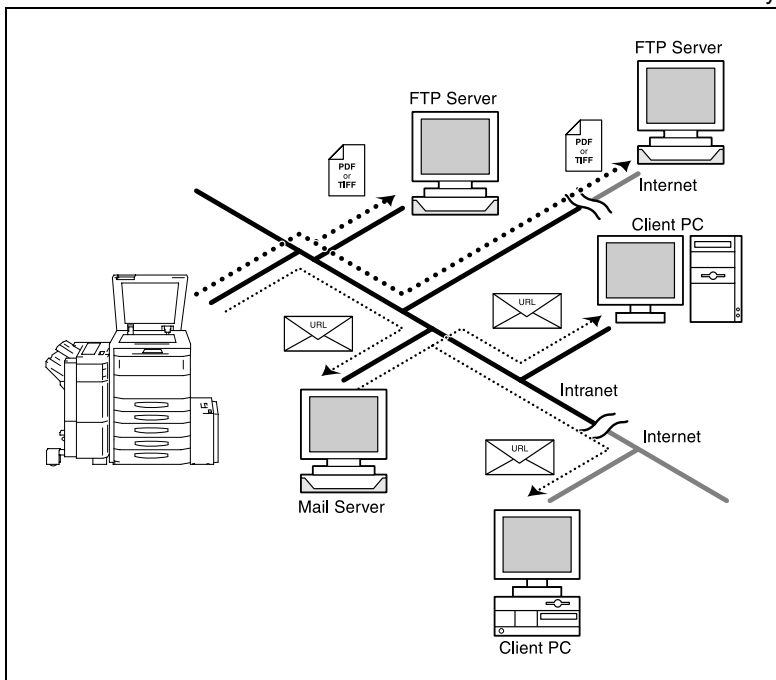
Folder (Scan to Server)

- Transmits scanned document to the folder specified by FTP server.
- Suitable for sending high-resolution data.
- Environment of Network with FTP server is necessary.



URL

- Transmits scanned document to the folder specified by FTP server.
- At the same time, transmits URL of FTP server with E-Mail.
- Suitable for sending high-resolution data.
- Environment of Network with Mail server and FTP server is necessary.



Note

If a key previously programmed with a destination for Scan to E-Mail or Scan to Server is touched at the same time and the scanning is performed, this URL operation is performed.

Necessary Settings

To use the Scanner Mode, it is necessary to perform the following network settings first.

You use Printer Management Utility to make these settings. For the details of Printer Management Utility, see “7 Printer Management Utility”.

Set Item	E-mail	Folder (Server)
IP Address	○	○
Subnet Mask	○	○
Default Gateway	△	△
SMTP Server Address	○	–
Reply Address	○	–
SMTP Connection Timeout	○	–
Default Compression	○	–
FTP Proxy Server Address	–	△
Proxy Port No.	–	△
E-mail Destination List	○	–
File Destination List	–	○

* ○ : Necessary △ : Necessary depending on environment – : Not necessary

Necessary Devices (servers)

Set Item	E-mail	Folder (Server)
Network Interface Card	○	○
SMTP Server	○	–
FTP Server	–	○

* ○ : Necessary △ : Necessary depending on environment – : Not necessary

7 Printer Management Utility

7.1 System requirements

The following items are required to use this utility.

Computer

- Software

Operating System	Web Browser
Windows 95/98/Me/NT 4.0/2000	Internet Explorer 5.0 or higher Netscape Communicator 4.7 or higher
Macintosh System 7 or higher	Internet Explorer 4.5 or higher Netscape Navigator 4 or higher
Solaris 2.5.1/2.6/7 (2.7)	Netscape Navigator 4 or higher
Linux	Netscape Navigator 4 or higher

- NIC (Network Interface Card)
- Ethernet
- TCP/IP Protocol

Digital Copier

Printer Controller



Note

If “Proxy Server” of the Web browser is set to “ON”, it may not be possible to access Printer Management Utility.

7.2 Access

Printer Management Utility can be accessed directly from a Web browser.

- 1 Start the Web browser.
- 2 In the URL field, enter the IP address of the printer controller as shown below.
`http://<IP address of printer controller>/`
 (Example) When the IP address of the printer controller is 192.9.200.200:
`http://192.9.200.200/`
- 3 This causes Printer Management Utility screen to appear.

Operation

Printer Management Utility operation is identical to that for Internet Web pages. Clicking a hot link jumps to the link destination, and the **Back** and **Forward** buttons scroll through pages backwards and forward.

Entering the password

After you log in to Printer Management Utility in the Admin Mode, you can change the configuration of the Digital Copier settings.

- 1 Type the administrator password into the **Admin Password** box. The initial default administrator password is **sysadm**.
- 2 Click the [Log-in] button to log in to the Admin Mode.
- 3 When you want to log out, click the [Log-out] button.



Note

Log out is performed automatically if no operation is performed for more than 10 minutes.

*On the **Network** tab, a password input text box appears on each setting screen. You must be able to input the correct password in order to change **Network** tab settings. The password you should input here is the same as the Admin Password you input on other tabs.*

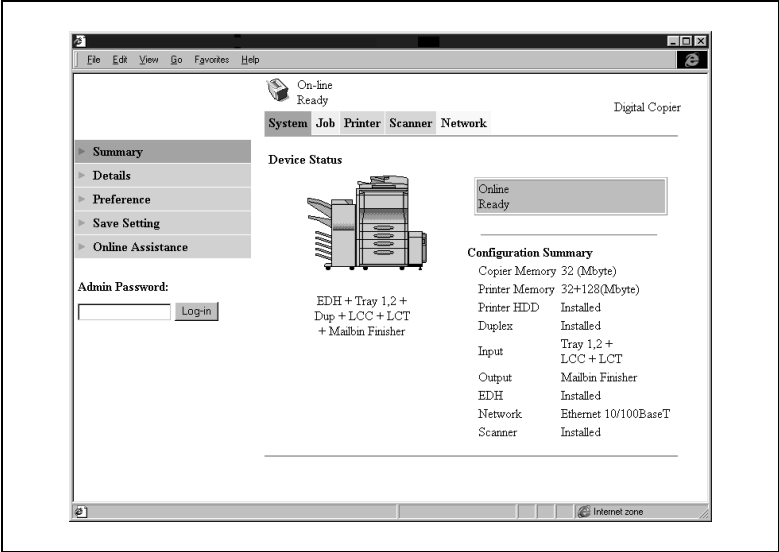
7.3 Screen configuration

The configuration of the Printer Management Utility screen is shown below.



Note

Screen images shown in this manual may differ slightly from actual ones. Also note that specifications are subject to change without prior notice.



Status Display

The current status of the Digital Copier is indicated by both icons and text. The message **Ready** appears when the Digital Copier is operating normally.

Ready	Error	Caution	Fatal

Tabs

Use the tabs to select the category of items you want to display. See the following sections of this document for detailed information about each tab.

Menus

Use the menus to select information or setting items. The menus that appear depend on the currently selected tab. See the following sections of this document for detailed information about each menu.

Information and Settings Display

This display shows information or settings in accordance with the selected menu item.

Admin Password

Inputting the admin password provides access to the Admin Mode.

8 Troubleshooting

8.1 Unable to Print

This section explains about the troubleshooting procedures for possible malfunctions. Perform the troubleshooting procedures given below in that order when the machine is unable to print even if you execute a print command from your computer.

Symptom	Possible Cause	Action
A message appears on the computer screen, saying something to the effect that “no printer is connected”, “no paper is loaded.” or “LPT1 write error”.	An error is present in the machine.	Check the control panel of the machine: If an error is displayed, identify the error and take the necessary action by referring to the User Manual.
	The printer cable or network cable is disconnected.	Check that the printer cable or network cable is connected properly to the computer and controller.
Printing does not start despite the completion of printing set-up on the computer.	An error is present in the machine.	Check the control panel of the machine: If an error is displayed, identify the error and take the necessary action by referring to the User Manual.
	The printer cable or network cable is disconnected.	Check that the printer cable or network cable is connected properly to the computer and controller.
	The printer driver selected for printing is not for the Printer Controller.	Check the printer name.
	A print job yet to be processed is loaded in the machine, causing the printer to wait.	Refer to the Job List on the machine control panel to check for print order.
	(for Linux) File to be printed is not a PS file.	Delete job and check to see if it is PS file.

<i>Symptom</i>	<i>Possible Cause</i>	<i>Action</i>
Continued from the previous page (Printing does not start despite the completion of printing setup on the computer.)	The print job is locked.	Refer to the Job List on the machine control panel to see if the print job in question is locked. If so, unlock it.
	The connection of the controller to the network has not been established.	Consult the network administrator.
	The print job was canceled.	Check the status on the "Incompleted Job Queue" of "Page Scope Light".
	Machine memory space available is not sufficient.	Add the machine memory to expand its space.
	If the copy track function is enabled, an illegal access number might have been entered.	Enter the correct access number.
Multiple copy sets are mistakenly sorted and stapled together as a single large set.	The settings in certain DTP software applications may conflict with the printer driver settings.	In the application, turn OFF Collate and set the copy count to one. In the printer driver, make the desired Collate, Sorting and copy count settings.
A large number of copies are mistakenly printed.	The settings in certain DTP software applications may conflict with the printer driver settings.	In the application, turn OFF Collate and set the copy count to one. In the printer driver, make the desired Collate, Sorting and copy count settings.
A document containing more than 40 pages cannot be printed.	The maximum number of document pages that can be stored in the standard memory is 40.	<ul style="list-style-type: none"> Decrease the number of document pages or add memory to expand its capacity. Select "Printer" for "Priority Device" available in 6/6 of User's Choice on the machine.
A PS error print is output.	Some applications allow you to select either "Binary" or "ASCII" mode when the PS driver is being used. A PS error could result if an attempt is made to print in the "Binary" mode.	Select the "ASCII" mode.

If the problem persists even after these checks have been made, refer to the documentation provided for the machine.

Unable to Make Correct Settings / Unable to Print Exactly as Set

Perform the troubleshooting procedures given below in the order when you cannot make proper settings in the printer driver or when the print results do not represent what has been set.

<i>Symptom</i>	<i>Possible Cause</i>	<i>Action</i>
The options are dimmed on the computer screen.	An illegal combination of functions has been made.	Reselect functions. (for Linux) Certain items can be set only by root user in "Device Options Setting".
The "Conflicts" dialog box is displayed on the computer screen.	An illegal combination of functions has been made.	Check for combination and make a correct combination of functions.
Unable to print exactly as set.	Incorrect settings are made.	Check the setting for each item of the printer driver.
	The combination of the functions, though valid on the printer driver, is invalid on the machine.	
The watermark cannot be printed.	The watermark is not correctly set.	Check the watermark setting.
	The "Darkness" setting of the watermark is low.	Check the "Darkness" setting of the watermark.
Unable to specify Staple.	(for Windows, Linux) Staple can be specified only when the type of Finisher you are using is selected on the "Device Options Setting" tab and "Auto" is selected for "Output Setting" on the "Setup" tab.	Select the type of Finisher you are using on the "Device Options Setting" tab, and select "Auto" for "Output Setting" on the "Setup" tab.
	(for Macintosh) Staple can be specified only when the type of Finisher you are using is selected on the "Installable Options" property sheet and "Auto" is selected for "Output Setting" on the "Printer Specific Options" property sheet.	Select the type of Finisher you are using on the "Installable Options" property sheet, and select "Auto" for "Output Setting" on the "Printer Specific Options" property sheet.
	No stapling can be effected in the following case: Paper size other than 182 × 182 mm to 297 × 432 mm is specified, paper source is manual feed port, exit port other than Auto is selected, Booklet is specified, OHP Interleaving is specified, Uncollated is specified.	Check the setting of the paper size, paper source, exit port, Booklet, OHP Interleaving, and Collated.

<i>Symptom</i>	<i>Possible Cause</i>	<i>Action</i>
Unable to staple properly.	No stapling can be effected if the type of paper is thick paper or OHP transparencies.	Check the type of paper.
	When Mailbin Finisher or Multi-staple Finisher is installed, no stapling can be effected if number of prints to be made exceeds 50.	Check the number of prints to be made.
	When Single-staple Finisher is installed, no stapling can be effected if number of prints to be made exceeds 30.	
	No stapling can be effected if the number of pages to be printed is 50 or more when a Folding Finisher is mounted. Center Staple is also disabled if the number of pages to be printed is 15 or more.	
	No stapling can be effected if original document contains pages of different sizes.	
The stapling position is opposite to what is expected.	The paper direction and N-up do not match the setting made for Orientation.	Change the setting for Orientation.
Unable to specify Punch.	Either a Multi-staple Finisher, Mailbin Finisher or Folding Finisher must be mounted to enable the setting of Punch, and "Multi-staple Finisher", "Mailbin Finisher" or "Folding Finisher" must be selected from "Installable Options" to specify Punch.	Select "Multi-staple Finisher" "Mailbin Finisher" or "Folding Finisher" from "Installable Options."
	Punch cannot be specified if Booklet or OHP interleaving is specified.	Check the setting of Booklet and OHP Interleaving.
Unable to effect Punch.	No holes can be made if the type of paper is thick paper or OHP transparencies.	Check the type of paper.
	Prints can at times be fed out without being punched if the direction of the paper loaded in the paper source is not appropriate.	Check the direction of the paper.
The hole punch position is opposite to what is expected.	The paper direction and N-up do not match the setting made for Orientation.	Change the setting for Orientation.

Symptom	Possible Cause	Action
Folding cannot be specified.	(for Windows) The optional Folding Finisher is necessary for you to specify Folding. "Folding Finisher" must be selected on "Device Options Setting" tab.	Select "Folding Finisher" on "Device Options Setting" tab.
	(for Macintosh) The optional Folding Finisher is necessary for you to specify Folding. "Folding Finisher" must be selected on "Installable Options."	Select "Folding Finisher" on "Installable Options."
	Folding may be disabled when Staple or Punch is specified.	Check the settings made. (See "Function combination matrix" on the User Manual.)
Folding is not effected.	Folding cannot be effected if the type of paper is Thick Paper or OHP.	Check the type of paper.
Unable to print image properly.	Machine memory space available is not sufficient.	Add machine memory to expand its space, or simplify the image to reduce the amount of data handled.
Unable to specify the exit port.	No exit port can be specified if the paper size is A6 or B6, or OHP Interleaving is specified.	Check the setting of the paper size and OHP Interleaving.
Unable to properly feed prints out to the specified port.	Prints with paper size of B6 or smaller cannot be fed out if paper exit port is Mailbin.	Check the paper type and paper size.
Paper is not fed from the specified paper source.	Paper may not be fed from the specified paper source if that paper source is loaded with paper of a different size and direction.	Load the paper source with paper of the appropriate size and in the appropriate direction.
Watermark is not printed.	Watermark may not be printed in graphics applications.	No watermark can be printed in this case.
Unable to print exactly as set.	The paper size, paper direction, and other settings made on the application takes precedence over those made in the driver.	Make the correct settings on the application.
Error dialog box is output instead of Setting dialog box.	Unusable combination of device and settings with Easy Set being stored could have been achieved by changing of device installed.	Open file specified in the error dialog box, delete applicable settings.
Distribution cannot be specified.	To specify Distribution, a "Hard Disk Drive in Copier" that is optional on the machine is necessary. "Hard Disk Drive in Copier" must be specified in "Device Options Setting."	Select "Hard Disk Drive in Copier" on "Device Options Setting."



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